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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Method for preventing signal coupling between two or more

flow-through type chip-based mounted piezoelectric resonator sensors used in an electrically

conductive liquid, wherein each of the sensors has a flowcell body provided with its own

resonator connected to its own single oscillator circuit and its own single power supply, said

resonator being on a single substrate, comprising:

making said flowcell body out of a non-conducting material;

providing each sensor with its own, individual conducting shield which substantially

surrounds said flowcell body, said conducting shield being connected to one pole of the power

supply; and

making an inner wall of a flow tube and each cavity out of a non-conducting material.

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Currently Amended) Piezoelectric resonator sensor comprising:

a flowcell body comprising a resonator connected to a single oscillator circuit, wherein

said flowcell body is made of a non-conducting material; and

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a single power supply, wherein said body is substantially surrounded by a conducting

shield connected to one pole of the power supply, and wherein an inner wall of a cavity, an inlet

channel and an outlet channel are insulated from said shield.

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (New) Method in accordance with claim 1, wherein said conducting shield is made of

metal tape.

10. (New) Method in accordance with claim 1, wherein an individual sensor housing for

each sensor is made of plastic, and the plastic is coated with said individual conducting shield.

11. (New) Method in accordance with claim 1, wherein said individual conducting shield

is made by spraying, with a conducting material, an outer surface of an individual housing for

said each sensor.

12. (New) Method in accordance with claim 1, wherein an oscillator circuit cavity for

said each sensor is shielded by applying shielding material to interior walls of said cavity.

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13. (New) Method in accordance with claim 1, wherein

said conducting shields of different sensors are not interconnected, and

each flow tube interconnecting adjacent sensors is not shielded.

14. (New) Sensor in accordance with claim 5, wherein said conducting shield is made of

metal tape.

15. (New) Sensor in accordance with claim 5, wherein a sensor housing for said sensor is

made of plastic, and the plastic is coated with said conducting shield.

16. (New) Sensor in accordance with claim 5, wherein said conducting shield is made by

spraying, with a conducting material, an outer surface of a housing for said sensor.

17. (New) Sensor in accordance with claim 5, wherein an oscillator circuit cavity for said

sensor is shielded by applying shielding material to interior walls of said cavity.

18. (New) Sensor in accordance with claim 5, wherein a flow tube of said sensor is not

shielded.

19. (New) Method for preventing signal coupling between two or more flow-through type

chip-based mounted piezoelectric resonator sensors used in an electrically conductive liquid,

wherein each of the sensors has a flowcell body provided with its own resonator connected to its

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own single oscillator circuit and its own single power supply, said resonator being on a single

substrate, comprising:

providing each sensor with its own, individual conducting shield which substantially

surrounds said flowcell body, said conducting shield being connected to one pole of the power

supply; and

making an inner wall of a flow tube and each cavity out of a non-conducting material,

wherein the poles connected to said individual conducting shields of said sensors have

the same polarity in said single power supplies.

20. (New) Method in accordance with claim 19, wherein

said conducting shields of different sensors are not interconnected, and

each flow tube interconnecting adjacent sensors is not shielded.

21. (New) Method for preventing signal coupling between two or more flow-through

type chip-based mounted piezoelectric resonator sensors used in an electrically conductive

liquid, wherein each of the sensors has a flowcell body provided with its own resonator

connected to its own single oscillator circuit and its own single power supply, said resonator

being on a single substrate, comprising:

applying individual conducting shielding material to interior walls of an oscillator circuit

cavity for each sensor; and

making an inner wall of a flow tube associated with each sensor out of a non-conducting

material.

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22. (New) Method in accordance with claim 21, further comprising:

providing each sensor with its own, individual conducting shield which substantially

surrounds said flowcell body, said conducting shields of different sensors not being

interconnected; and

interconnecting adjacent sensors using a flow tube, wherein said flow tube is not

shielded.

23. (New) Piezoelectric resonator sensor comprising:

a body comprising a resonator connected to a single oscillator circuit, wherein an

oscillator circuit cavity is shielded by a first conductive shield applied to interior walls of said

cavity; and

a single power supply, wherein said body is substantially surrounded by a second

conducting shield connected to one pole of the power supply.

24. (New) Sensor in accordance with claim 23, further comprising a flow tube which is

not shielded.

25. (New) Method for preventing signal coupling between two or more flow-through

type chip-based mounted piezoelectric resonator sensors used in an electrically conductive

liquid, wherein each of the sensors has a flowcell body provided with its own resonator

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connected to its own single oscillator circuit and its own single power supply, said resonator

being on a single substrate, comprising:

providing each sensor with its own, individual conducting shield which substantially

surrounds said flowcell body, said conducting shield being connected to one pole of the power

supply; and

making an inner wall of a flow tube and each cavity out of a non-conducting material,

wherein

said conducting shields of different sensors are not interconnected, and

each flow tube interconnecting adjacent sensors is not shielded.